

Title (en)
CYLINDRICAL BATTERY, AND BATTERY PACK AND VEHICLE COMPRISING SAME

Title (de)
ZYLINDRISCHE BATTERIE UND BATTERIEPACK UND FAHRZEUG DAMIT

Title (fr)
BATTERIE CYLINDRIQUE, ET BLOC-BATTERIE ET VÉHICULE LA COMPRENANT

Publication
EP 4322295 A1 20240214 (EN)

Application
EP 22884116 A 20221021

Priority
• KR 20210142181 A 20211022
• KR 2022016205 W 20221021

Abstract (en)
Disclosed is a cylindrical battery, which includes an electrode assembly; a battery housing configured to accommodate the electrode assembly through an open portion; a current collecting plate having a support portion, an uncoated portion coupling portion coupled to the first uncoated portion, and a housing coupling portion electrically connected to the battery housing; a cap plate covering the open portion; an electrode terminal riveted through a perforated hole formed in a closed portion of the battery housing and electrically connected to the second uncoated portion; and an insulating gasket interposed between the electrode terminal and the perforated hole, wherein the electrode terminal includes a body portion; an outer flange portion; an inner flange portion; and a flat portion provided on an inner side of the inner flange portion.

IPC 8 full level
H01M 50/179 (2021.01); **H01M 10/04** (2006.01); **H01M 50/186** (2021.01); **H01M 50/538** (2021.01); **H01M 50/559** (2021.01)

CPC (source: EP KR)
H01M 10/0431 (2013.01 - KR); **H01M 10/0587** (2013.01 - EP); **H01M 50/107** (2021.01 - EP); **H01M 50/152** (2021.01 - EP); **H01M 50/179** (2021.01 - KR); **H01M 50/184** (2021.01 - EP); **H01M 50/186** (2021.01 - KR); **H01M 50/534** (2021.01 - EP); **H01M 50/538** (2021.01 - KR); **H01M 50/559** (2021.01 - EP KR); **H01M 50/567** (2021.01 - EP); **H01M 2220/20** (2013.01 - KR); **Y02E 60/10** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4322295 A1 20240214; CA 3235201 A1 20230427; CN 116014310 A 20230425; CN 219350422 U 20230714; JP 2024504178 A 20240130; KR 20230057991 A 20230502; WO 2023068895 A1 20230427

DOCDB simple family (application)
EP 22884116 A 20221021; CA 3235201 A 20221021; CN 202211272739 A 20221018; CN 202222748643 U 20221018; JP 2023544744 A 20221021; KR 20220136810 A 20221021; KR 2022016205 W 20221021